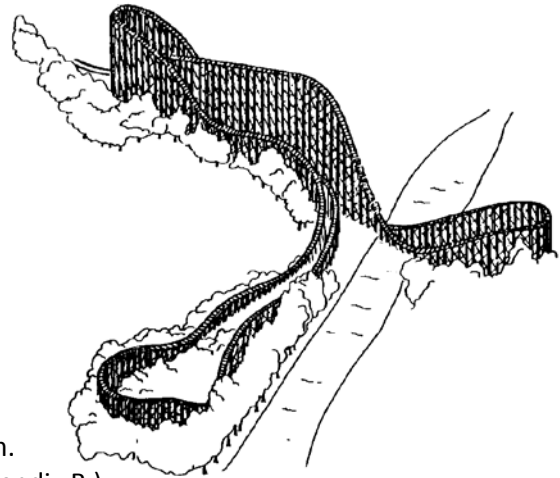


THE COMET



1. What are some things that would keep this roller coaster from being an ideal situation?
2. Find the total energy of the train with $m = 4309\text{kg}$ and $l = 12.19\text{m}$ at the top of the first hill of $h = 24.4\text{ m}$. (Hint: to find the speed at the top of the hill, see Appendix B.)
3. Find the total energy at the bottom of the hill.
4. Calculate the energy lost from the top of the hill to the bottom.
5. Find the percentage of energy lost from the top to the bottom of the hill.

